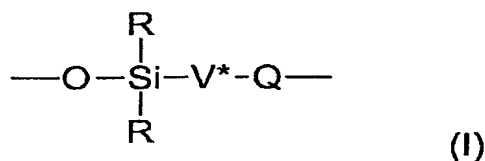


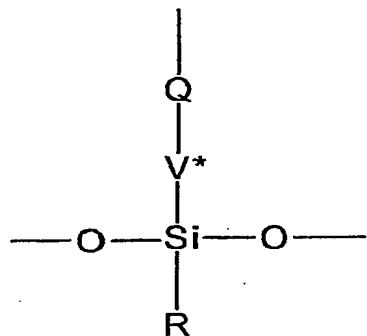
Patent claims:

1. A polyorganosiloxane composition containing at least one amino- and/or ammonium-polysiloxane compound a1) containing at least one amino and/or ammonium group Q and at least one organic radical V, with the proviso that at least one organic radical V is an organic radical V^{Si1} containing a polydiorganosiloxane group, wherein the binding of the group Q to the group V^{Si1} is effected by the structural element (I)



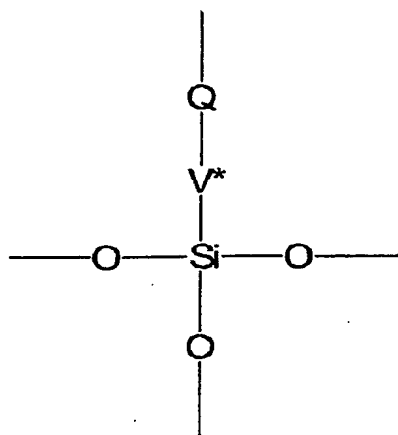
wherein V^* is a divalent organic radical which in each case is bonded via a carbon atom to the silicon atom of the polydiorganosiloxane radical and to the nitrogen atom of the amino or ammonium group Q, and R is a monovalent organic radical,

and at least one amino- and/or ammonium-polysiloxane compound a2) containing at least one amino or ammonium group Q and at least one organic radical V, with the proviso that at least one organic radical V is an organic radical V^{Si2} containing a polydiorganosiloxane group, wherein the binding of the group Q to the group V^{Si2} is effected by the structural element selected from the formulae (II) and (III)



(II) and

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(III)

wherein V* is in each case a divalent organic radical which in each case is bonded via a carbon atom to the silicon atom of the organosiloxane radical and to the nitrogen atom of the amino or ammonium group Q, and R is a monovalent organic radical,

with the proviso that the amino- and/or ammonium-polysiloxane compound a2) has no structural element of the formula (I), and

with the proviso that the group Q does not bond to a carbonyl carbon atom, and

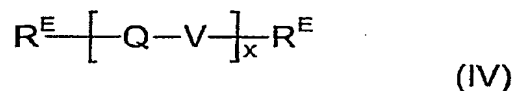
wherein the positive charges resulting from ammonium groups are neutralized by organic or inorganic acid anions, and the acid addition salts thereof.

2. The polyorganosiloxane composition as claimed in claim 1, characterized in that it contains no nitrogen-free polysiloxane compound.
3. The polyorganosiloxane composition as claimed in claim 1 or 2, which consists of:

component a1), as defined in claim 1,
 component a2), as defined in claim 1,
 optionally one or more silicone-free surfactants b),
 optionally one or more auxiliaries c) and

optionally one or more carrier substances d).

4. The polyorganosiloxane composition as claimed in any of claims 1 to 3, wherein the components a1) to a2) are present in the weight ratio of from 30:1 to 1:90.
5. The polyorganosiloxane composition as claimed in any of claims 1 to 4, wherein the components a1) to a2) are present in a weight ratio of from 1:0.1 to 1:10, preferably in a weight ratio of from 1:0.2 to 1:7.
6. The polyorganosiloxane composition as claimed in any of claims 1 to 5, characterized in that the amino- and/or ammonium-polysiloxane compound a1) has the formula (IV)



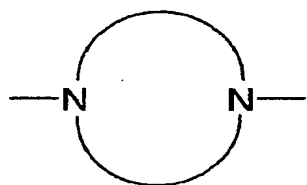
wherein Q and V are as defined above, R^{E} is in each case a monovalent organic radical or hydrogen, x is ≥ 1 , the radicals R^{E} may be identical or different from one another and, if x is > 1 , the groups Q, V may in each case be identical or different from one another.

7. The polyorganosiloxane composition as claimed in any of claims 1 to 6, wherein Q is selected from the group consisting of:

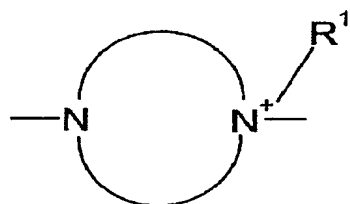


a saturated or unsaturated, diamino-functional heterocycle optionally substituted by further substituents of the formulae:

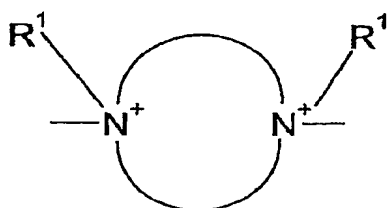
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,

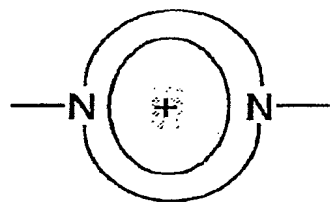


and

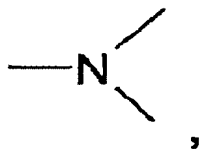


, and

an aromatic, optionally substituted diamino-functional heterocycle of the formula:

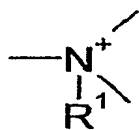


a trivalent radical of the formula:



,

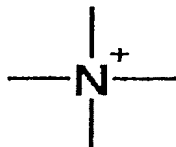
a trivalent radical of the formula:



, or

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a tetravalent radical of the formula

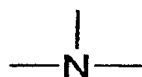


wherein R¹ in each case is hydrogen or a monovalent organic radical, Q not binding to a carbonyl carbon atom.

8. The polyorganosiloxane composition as claimed in any of claims 1 to 7, wherein the unit V is selected from at least one polyvalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radical having up to 1000 carbon atoms (the carbon atoms of the optionally present polyorganosiloxane radical not being counted) which optionally may contain one or more groups selected from

-O-, -C(O)-, -C(S)-,

-NR²-, wherein R² is hydrogen, a monovalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radical having up to 300 carbon atoms which may contain one or more groups selected from -O-, -NH-, -C(O)- and -C(S)-, and which is optionally by one or more substituents selected from the group consisting of a hydroxyl group, an optionally substituted, heterocyclic group preferably containing one or more nitrogen atoms, polyether radicals, polyetherester radicals, polyorganosiloxanyl radicals and -Si(OR)_{3-a}(R)_a, wherein a is an integer from 0 to 2 and R is as defined above, where, if a plurality of groups -NR²- is present, these may be identical or different, and with the proviso that the group -NH- binds to a carbonyl and/or thiocarbonyl carbon atom,



and may contain polyorganosiloxane radicals,

and which optionally may be substituted by one or more hydroxyl groups,

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with the proviso that the groups $\begin{array}{c} | \\ \text{---N---} \end{array}$ and $\text{-NR}^2\text{-}$ bind to at least one carbonyl and/or thiocarbonyl carbon atom, and with the proviso that at least one radical V contains at least one polyorganosiloxane radical.

9. The polyorganosiloxane composition as claimed in any of claims 1 to 8, wherein the amino- and/or ammonium-polysiloxane compound a1) has at least three units selected from the units Q and V, wherein Q is at least one di-, tri- and/or tetravalent amino and/or ammonium group which is not bonded to V via a carbonyl carbon atom, and V is at least one organic radical which is linked to the Q units via carbon, with the proviso that at least one of the units V contains a polydiorganosiloxane radical.
10. The polyorganosiloxane composition as claimed in any of claims 1 to 9, wherein the amino- and/or ammonium-polysiloxane compound a1) has at least two units Q.
11. The polyorganosiloxane composition as claimed in any of claims 1 to 10, wherein the amino- and/or ammonium-polysiloxane compound a1) has at least two units Q and more than one unit V^{Si} .
12. The polyorganosiloxane composition as claimed in any of claims 1 to 11, wherein the amino- and/or ammonium-polysiloxane compound a1) has at least two units Q and more than two units V^{Si} .
13. The polyorganosiloxane composition as claimed in any of claims 1 to 12, wherein the organic radical V in the amino- and/or ammonium-polysiloxane compound a1) is at least one constituent which is selected from the group consisting of V^1 , V^2 and V^3 , wherein

V^2 is selected from divalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radicals having up to 1000 carbon atoms (the carbon atoms of the polysiloxane radical Z^2 defined below not being counted) which optionally may contain one or more groups selected from

-O-, -CONH-,

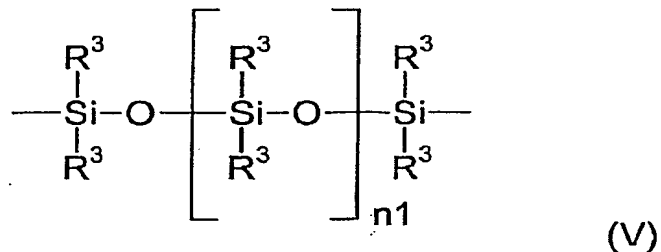
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-CONR²-, wherein R² is hydrogen, a monovalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radical having up to 100 carbon atoms which may contain one or more groups selected from -O-, -NH-, -C(O)- and -C(S)-, and which may be optionally substituted by one or more substituents selected from the group consisting of a hydroxyl group, an optionally substituted heterocyclic group preferably containing one or more nitrogen atoms, amino, alkylamino, dialkylamino, ammonium, polyether radicals and polyetherester radicals, where, if a plurality of groups -CONR² is present, these may be identical or different,

-C(O)- and -C(S)-,

the radical V² may be optionally substituted by one or more hydroxyl groups, and

the radical V² contains at least one group -Z²- of the formula



wherein R³ may be identical or different and is selected from the group which consists of C₁ to C₂₂ alkyl, fluoro(C₃-C₁₀) alkyl, C₆-C₁₀-aryl and n₁ = 20 to 1000,

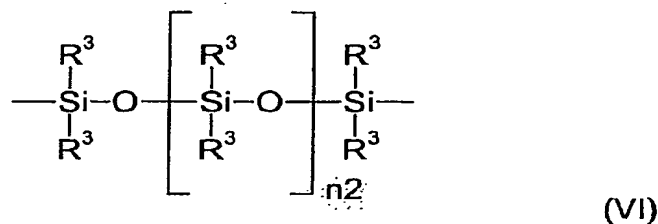
V¹ is selected from divalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radicals having up to 1000 carbon atoms which optionally may contain one or more groups selected from

-O-, -CONH-,

-CONR²-, wherein R² is as defined above, it being possible for the groups R² in the groups V¹ and V² to be identical or different,

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may contain -C(O)-, -C(S)- and -Z¹-, wherein -Z¹- is a group of the formula



wherein

R³ is as defined above, it being possible for the groups R³ in the groups V¹ and V² to be identical or different, and n₂ = 0 to 19,

and the radical V¹ may be optionally substituted by one or more hydroxyl groups, and

V³ is a trivalent or higher-valent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radical having up to 1000 carbon atoms which optionally may contain one or more groups selected from

-O-, -CONH-, -CONR²-, wherein R² is as defined above, -C(O)-, -C(S)-, -Z¹-, which is as defined above, -Z²-, which is as defined above, and Z³, wherein Z³ is a trivalent or higher-valent organopolysiloxane unit,

and which may be optionally substituted by one or more hydroxyl groups,

it being possible in each case for one or more groups V¹, one or more groups V² and/or one or more groups V³ to be present in said polysiloxane compound,

with the proviso that said polysiloxane compound contains at least one group V¹, V² or V³ which contains at least one group -Z¹-, -Z²- or Z³.

14. The polyorganosiloxane composition as claimed in any of claims 1 to 13, characterized in that they are liquid at 40°C.
15. The polyorganosiloxane composition as claimed in any of claims 1 to 14, consisting of

from 0.05 to 90% by weight of the components a1) and a2),

from 0 to 30% by weight of one or more silicone-free surfactants b),
auxiliaries c) selected from:

from 0 to 0.5% by weight of one or more biocides,

from 0 to 10% by weight of one or more rheology modifiers,

from 0 to 5% by weight of one or more further auxiliaries and
up to 99.95% by weight of one or more carriers d).

16. The polyorganosiloxane composition as claimed in any of claims 3 to 15, characterized in that the silicone-free surfactant as component b) is at least one constituent which is selected from unpolymerized, organic, quaternary ammonium compounds.
17. The polyorganosiloxane composition as claimed in any of claims 3 to 16, characterized in that the carrier substance d) is at least one constituent which is selected from the group consisting of water and water-miscible organic solvents.
18. The polyorganosiloxane composition as claimed in any of claims 3 to 17, characterized in that the silicone-free surfactant as component b) is selected from nonionic emulsifiers.
19. The polyorganosiloxane composition as claimed in any of claims 1 to 18, which contains water.
20. A process for the preparation of the polyorganosiloxane compositions as claimed in any of claims 1 to 19, that comprises mixing the components a1) and a2) and optionally the further components.
21. The use of the polyorganosiloxane compositions as claimed in any of claims 1 to 19 for the surface treatment of substrates.
22. The use as claimed in claim 21 for the treatment of fiber substrates or fibrous substrates.
23. The use as claimed in claim 21 or 22 for the finishing or treatment of natural or synthetic fibers, hairs, textiles, nonwoven paper fabrics, paper pulps, woven

paper fabrics, paper layers, such as dry or moist lavatory papers, facial papers, cleaning cloths, wiping papers and paper handkerchiefs.

24. The use of the polyorganosiloxane compositions as claimed in any of claims 1 to 19 as a softener or antistatic agent for natural or synthetic fibers or papers, such as hairs, cotton or synthetic fabrics.
25. The use as claimed in any of claims 21 to 24, wherein, based on the dry fiber or paper mass, from 0.03% by weight to 30% by weight of the nonvolatile constituents of the polyorganosiloxane compositions according to the definition of the above claims are present.
26. The use as claimed in any of claims 21 to 25, wherein, based on the dry fiber or paper mass, from 0.01% by weight to 10% by weight of the components a1) and a2) are present.
27. The use of the polyorganosiloxane compositions as claimed in any of claims 1 to 19 as a cleaning agent, wetting agent, corrosion inhibitor, primer, adhesion promoter, antifogging agent or antistatic agent for hard surfaces.
28. A product containing at least one polyorganosiloxane composition as claimed in any of claims 1 to 19.
29. The product as claimed in claim 28, which is a paper product.
30. The product as claimed in claim 28 or 29, wherein, based on the dry product, from 0.03% by weight to 30% by weight of the nonvolatile constituents of the composition as claimed in any of claims 1 to 19 are present.